Extron Electronics
INTERFACING, SWITCHING AND CONTROL

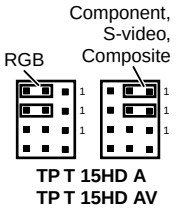
TP Transmitters • Setup Guide

IMPORTANT: Refer to www.extron.com for the complete user guide and installation instructions before connecting the product to the power source.

This guide provides quick start instructions for an experienced installer to set up and operate the TP Transmitter Series products. Go to **www.extron.com** for the complete user guide.

Pre-installation — Jumper Settings

The TP T 15HD A and TP T 15HD AV are factory configured to transmit RGB video. You can reconfigure them to transmit component, S-video, or composite video by using a jumper to connect pins 1 and 2 at locations J1 and J2 on the main circuit board (see the illustration at right).



TP T 15HD A
TP T 15HD AV

NOTE: If using the TP T 15HD AV with a TPX 88X transmitter or with an older, unmodified receiver, see "Audio Jumpers" in the *TP T Series Transmitters User's Manual* for information on audio jumper placement for compatibility.

CAUTIONS:

- Always disconnect power to the unit before opening the enclosure.
- Wear a wrist grounding strap when handling the circuit board.

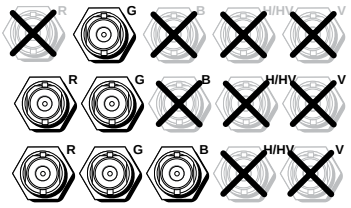
Installation

Step 1 — Mount the Unit

Turn off or disconnect power to all equipment, and mount the transmitter as desired.

Step 2 — Connect Inputs

Attach input cables to the audio and video connectors as applicable for your TP T model.

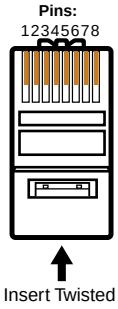


- **Composite video** — Connect a composite video source device to the Video RCA jack (TP T 15HD AV) or the G pin of the Computer Input 15-pin HD connector (TP T 15HD A).
- **S-video** — Connect an S-video source device to pins R (chroma) and G (luma) of the Computer Input 15-pin HD connector.
- **Component video** — Connect a source device to pins R (R-Y), G (Y), and B (B-Y) of the Computer Input HD connector.
- **RGBHV computer video** — Connect an RGB source device to the female Computer Input HD connector.
- **RGBS computer video** — Connect an RGB source device to the female Computer Input HD connector.
- **Audio input** — Connect PC audio to the 3.5 mm TRS stereo jack.
- **Audio input L and R pair** — Connect left and right stereo audio to the RCA connector pair (TP T 15HD AV only).

NOTE: Input only analog line level audio signals on these connectors.

Step 3 — Connect Outputs

- Connect the RJ-45 cable from a TP receiver to an RJ-45 port on the TP transmitter. Terminate the cable ends according to the TIA/EIA T 568A wiring standard (see the table below).



RJ-45 Connector

Pin	Wire Color	RGB Video and Audio		AV Video and Audio	
		Signal	Level	Signal	Level
1	White-green	Red/V. sync+	±0.35 V	Video+	+0.35 V
2	Green	Red/V. sync–	±0.35 V	Video–	–0.35 V
3	White-orange	Audio and power	+15 V ±0.5 V	Audio+* & power+	+15 V
4	Blue	Green+	+0.35 V	Reserved	None
5	White-blue	Green–	–0.35 V	Reserved	None
6	Orange	Audio and power	±0.5 V	Audio–* & power–	0 V
7	White-brown	Blue/H. sync+	±0.35 V	Reserved	None
8	Brown	Blue/H. sync–	±0.35 V	Reserved	None

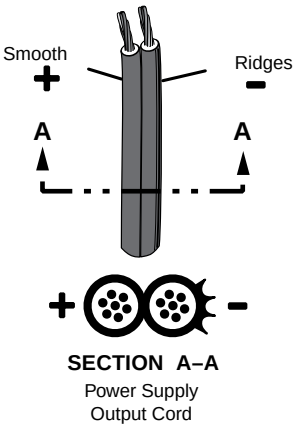
*Audio can be connected to wire pair 7 and 8 with a jumper.

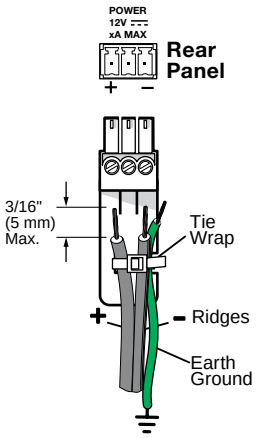
- If desired, connect a local monitor video cable to the Buffered Local Monitor port.

Step 4 — Connect Power

Plug the included external 15 VDC power supply into the 3-pole captive screw connector. Wire the connector as shown at right.

NOTE: The TP T 15HD A and TP T 15HD AV can be powered via the attached receiver (except the TP R 15HD A) for cable runs of 300 feet (91.4 m) or less.



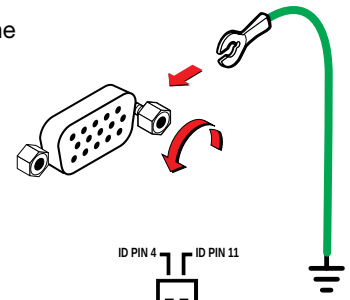


Grounding guidelines

Any Extron TP T series transmitter can be adversely affected by electrostatic discharge (ESD) if it is not grounded correctly.

To prevent malfunctions or product damage, an experienced installer can correctly ground an Extron TP T transmitter in either of two ways:

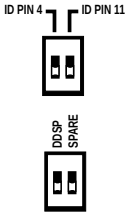
- **Ground the power input port** — Insert one end of the grounding wire to the negative or ground pin on the power input connector (see the image at top right). Tie the other end of the wire to an earth ground.
- **Ground the chassis** — Use a connector hex nut (see the image at right). Tie the other end of the wire to an earth ground.



If you have any questions about how to ground a product in a specific application, contact an Extron technical support specialist.

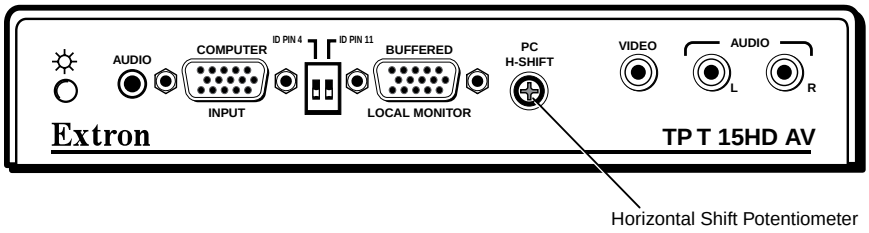
Step 5 — Set DIP Switches

- **ID Pin 4 and ID Pin 11 (front panel)** — Set these switches to Off (down) if a local monitor is connected, or to On (up) if not.
- **DDSP (back panel)** — Set this switch to On (up), if needed, to enable Digital Display Sync Processing. Set the switch to Off (down) for displays that cannot handle processed sync.

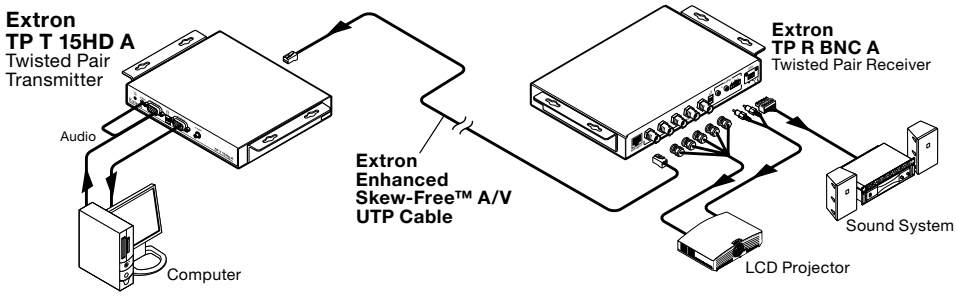


Step 6 — Adjust Horizontal Shift

While viewing the display, use a small screwdriver to turn the H-Shift (TP T 15HD A) or PC H-Shift (TP T 15HD AV) potentiometer on the front panel to adjust the side-to-side image placement.



Application Diagram



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